Docket No.: 60409.300901 Patent

## Amendments to the drawings

## In the Drawings:

Please replace the sheet of drawing containing Tables 1-3 with the revised sheet labeled "FIG. 16" which is provided herewith.

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FIG. 16

<u>10</u>	Hash-based approach (2-way-set-associative) Fig. 1	CAM-based approach Fig. 2	H-CAM-based approach (2-way-set-associative) Fig. 8
ASIC output pins	21	128	128
ASIC input pins	160	32	32
RAM size (est. cost)	2M x 160 (\$800)	1M x 32 (\$80)	1M x 32 (\$80)
CAM size (est. cost)	-	1M x 128 (\$3200)	100K x 128 (\$320)
Hash Pointer RAM size (est. cost)	-	-	2M x 20 (\$100)
Search Data RAM size (est. cost)	-	-	1M x 128 (\$320)
Database size (entries) supported	Depends	1M	Depends
Associate content RAM read	2 reads per search	1 read per search	1 read per search
Estimated cost	\$800	\$3280	DEMOFILE
Estimated Power consumption	20W	162W	28.5

Table 1

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	Search value (6-digit wide)	Hash 1 output (4-digit wide)	Hash 2 output (2-digit wide)	CAM 1 content	CAM 2 content	Memory content	
1	-	-	-	-	-	-	
2	324238	7783	63	-	-	-	
3	-	-	-	-	-	63: 324238,17	
4	578901	6311	63		-	63: 324238,17	
5	-	-	-	-	100:6311	63: 324238,17 100: 578901,23	
6	322413	6311	63	-	100:6311	63: 324238,17 100: 578901,23	
7	-	-	-	200:322413	100:6311	63: 324238,17 100: 578901,23 200: - , 86	
8	578901	6311	63	200:322413	100:6311	63: 324238,17 100: 578901,23 200: - , 86	
9	322413	6311	63	200:322413	100:6311	63: 324238,17 100: 578901,23 200: - , 86	
10	324238	7783	63	200:322413	100:6311	63: 324238,17 100: 578901,23 200: - , 86	

Table 2

Memory Size and Bandwidth requirement		Old method (Fig. 1)	H-CAM (Fig. 11)
Memory size	Search Data memory	8 million entries	1 million entries
	Hash Pointer memory	none ,	2M pointers
	Total (Mbit)	1024	164
Memory bandwidth	Reads/search	8	2 per H-CAM